

### **Remarks/Arguments**

The application currently contains claims 1-28. New claims 29-367 have been added. Applicant wishes to present claims 1-37 for further consideration by the Examiner. Claims 1, 3-5, 8-13, 16-20, 22-23 and 25-28 are currently amended.

### **Amendments to the Specification**

The specification has been amended in order to perfect priority under 35 U.S.C. 119(e). Paragraph [000], providing a statement including a specific relationship between the instant application and the domestic priority document, has been added after the title of the invention and above Field of the Invention. No new matter has been added.

The specification has been amended at paragraph [0079]. In particular, the last sentence of this paragraph has been amended to include a reference to Figure 6a. This amendment is intended to improve the clarity of the description, in that paragraph [0079] relates mainly to Figure 6c, but the quadrupole assembly that is referred to actually appears at Figure 6a. The last sentence of paragraph [0079] has also been amended to specify more clearly that application of an asymmetric waveform and a compensation voltage is by electrical controller 50. No new matter has been added.

The specification has been amended at paragraph [0080]. In particular, the wording of portions of paragraph [0080] has been changed in order to provide a more clear description of the concept that is being discussed. No new matter has been added.

### **Amendments to the Claims**

Applicant has amended claims 3-5, 8, 9, 12, 17-19, 22, 23 and 25-28 in order to remove multiple dependencies. In particular:

Claims 3-5, 8 and 17-19 have been amended to depend only from claim 1;

Claim 12 has been amended to depend only from claim 3;

Claim 9 has been amended to depend only from claim 7;

Claims 22, 23 and 26-28 have been amended to depend only from claim 20; and,

Claim 25 has been amended to depend only from claim 21.

In addition, claim 1 has been amended in order to recite more clearly that subject matter which Applicant considers inventive. In particular, last two lines of claim 1 have been amended to read -- extracting the selectively separated ions from the analyzer region substantially during operation in the rf-only mode--. An example of support for the proposed amendment may be found in the application as originally filed at paragraph [0093]. No new matter has been added.

Similar amendments have been made to claims 3, 10-13 and 16. In particular: the expression “step of extracting ions” has been amended in claims 3, 10, 11 and 13 to read -- step of extracting the selectively separated ions--; the expression “providing the extracted ions” has been amended in claim 12 to read -- providing the extracted selectively separated ions --; and, the expression “wherein ions are extracted from the analyzer region” has been amended in claim 16 to read -- wherein the selectively separated ions are extracted from the analyzer region --. No new matter has been added.

Claim 20 has been amended in order to recite more clearly that subject matter which Applicant considers inventive. In particular, claim 20 has been amended to recite “wherein, during use, an ion which is being transmitted through the analyzer region is subjected to the first operating mode and to the second operating mode during a period of time the ion is resident within the analyzer region.” One example of support for the proposed amendment may be found in the application as originally filed at paragraph [0063], which states, “At time  $t_5$ , the voltages applied to the quadrupole rods are returned to their original rf-only operating state. The ions which were in a balanced condition or were drifting towards the segmented-rods 10 as a result of the asymmetric waveform and compensation voltage are returned to the center axis of the quadrupole assembly 8 due to collisional cooling.” No new matter has been added.

New claim 29 has been added to the application. An example of support for new claim 29 may be found at claim 10 as originally filed. No new matter has been added.

New claim 30 has been added to the application. An example of support for new claim 30 may be found at claim 26 as originally filed. No new matter has been added.

New claim 31 has been added to the application. An example of support for new claim 31 may be found at claim 27 as originally filed. No new matter has been added.

New claim 32 has been added to the application. An example of support for new claim 32 may be found at paragraph [0076] of the application as originally filed. No new matter has been added.

New claim 33 has been added to the application. An example of support for new claim 33, which depends from new claim 32, may be found at paragraph [0076] of the application as originally filed. No new matter has been added.

New claim 34 has been added to the application. An example of support for new claim 34 may be found at paragraph [0082] of the application as originally filed. No new matter has been added.

New claim 35 has been added to the application. An example of support for new claim 35 may be found at paragraph [0053] of the application as originally filed. No new matter has been added.

New claim 36 has been added to the application. An example of support for new claim 36 may be found at paragraph [0076] of the application as originally filed. No new matter has been added.

New claim 37 has been added to the application. An example of support for new claim 37 may be found at claim 9 as originally filed. No new matter has been added.

No new matter has been added in the amendment.

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Respectfully submitted,



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